

Claims at Issue:

1. (Previously Presented) An insulating concrete form, the form comprising:

first and second substantially opposing panels, each panel having a top surface, bottom surface, first end surface, second end surface, an exterior surface defining a wall and an interior surface for receiving concrete, with the first end surface and second end surface of the first panel and second panel having both a tongue and groove, disposed such that on the first end surface of the first panel the tongue is proximal the exterior surface and the groove proximal the interior surface, on the second end surface of the first panel the groove is proximal the exterior surface and the tongue proximal the interior surface, on the first end surface of the second panel the groove is proximal the exterior surface and the tongue proximal the interior surface, on the second end surface of the second panel the tongue is proximal the exterior surface and the groove proximal the interior surface, the panels disposed such that the first end surface of the first panel opposes the first end surface of the second panel and the second end surface of the first panel opposes the second end surface of the second panel; and

at least two ties interconnecting the first panel and the second panel, each of said ties comprising at least three vertical and at least three horizontal wires attached at each intersection between the vertical and horizontal wires and arranged to form a grid and metal strips welded to the horizontal wires adjacent the opposite ends thereof and arranged perpendicular to the grid plane and embedded within the panel;

whereby two or more forms may be horizontally positioned and interlocked to form a planar surface by means of a joint formed by both a tongue and a groove on each panel of one form interconnecting with a groove and a tongue on each panel of another form, the forms being reversibly connectable such that the first end surface of the first and second panels of

one form may be joined with either the first end surface or the second end surface of the first and second panels of another form.

2. (Previously Presented) The form of claim 1, wherein the top surface of each of the first and second panel having a tongue or a groove, and the bottom surface of the first and second panel having a complementary tongue or groove, whereby two or more forms may be vertically stacked and interlocked to form a planar surface by means of a joint formed by a single tongue on each panel of one form interconnecting with a single groove on each panel of another form.

3. (Original) The form of claim 1 wherein the panels comprise a polymeric material.

4. (Original) The form of claim 1 wherein the exterior surfaces of the first panel and second panel each form a single plane.

5. (Original) The form of claim 1 wherein the exterior surface of at least the first panel forms two planes, the two planes intersecting at an angle to form a vertical line.

6. (Original) The form of Claim 5 wherein the angle is a right angle or a forty-five degree angle.

7. (Cancelled)

8. (Original) The form of claim 1 wherein the tie comprises a welded wire tie.

9. (Previously Presented) The form of claim 8 wherein said at least three parallel horizontal wires are arranged in a single plane, said wires spaced apart such that the total distance from the bottom-most horizontal wire to the top-most horizontal wire is less than the height of the two opposing panels, each horizontal wire being of a length greater than the distance between the exterior surfaces of the two opposing panels, with a right angle bend on each end of each horizontal wire positioned such that each right angle bend is disposed between the exterior surface and the interior surface of a panel;

at least three parallel vertical wires arranged in a single plane, the wires spaced apart and arranged so as to be disposed within a distance less than the distance between the right angle bends on each end of the horizontal wires, each wire being a length at least equal to the total distance from the bottom-most horizontal wire to the top-most horizontal wire;

the at least three horizontal wires and at least three vertical wires disposed such that each horizontal wire touches and forms a right angle intersection with all vertical wires, and each vertical wire touches and forms a right angle intersection with all horizontal wires, the wires being welded one to the other at each intersection; and

each of said metal strips disposed within the interior of said right angle bend on each end of the horizontal wires, at least a portion of each of the metal strips being substantially parallel to the exterior surface of the panel, each metal strip being in contact with each horizontal wire and welded thereto.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)